PATENT COOPERATION TREATY

To:	• • • • • • • • • • • • • • • • • • •				PCI				
	see form F	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
					(PCT Rule 43bis.1)				
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)					
	icant's or agent's file form PCT/ISA/22			FOR FURTHER ACTION See paragraph 2 below					
	national application N TUP2005/000732		International filing date 14.01.2005	(day/month/year) Priority date (day/month/year) 16.01.2004					
nter C25	national Patent Class 5D3/56, C25D3/52	sification (IPC) or 2, G11B5/858,	both national classification H01F10/14	n and IPC					
	licant NON KABUSHIK	I KAISHA							
۱.	This opinion co	ntains indicati	ons relating to the fo	llowing items:					
	⊠ Box No. I Basis of the opinion								
	Box No. II	Priority	лион		•				
	Box No. III		ment of opinion with re	gard to novelty, inve	ntive step and industrial applicability				
	Box No. IV	Lack of unity of		3.					
	Box No. V	Reasoned stat		ois.1(a)(i) with regard ns supporting such s	I to novelty, inventive step or industrial statement				
	☑ Box No. VI	Certain docum	ents cited	,		•			
	☐ Box No. VII		s in the international ap	* •		,			
	Box No. VIII	Certain observ	rations on the internation	onal application					
2.	FURTHER ACT	ON							
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.								
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
	For further options, see Form PCT/ISA/220.								
3.	For further details, see notes to Form PCT/ISA/220.								
				•	-				



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10/566949

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

IAP20 Rec'd PCT/TTO 0 3 FEB 2005 International application No. PCT/JP2005/000732

	Вох	No.	I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
	☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).							
With regard to any nucleotide and/or amino acid sequence disclosed in the international applicancessary to the claimed invention, this opinion has been established on the basis of:								
	a. ty	pe of	f material:	•				
	. С] a	sequence listing	*				
		j ta	able(s) related to the sequence listing					
	b. fo	rmat	t of material:					
] in	n written format					
	· c] in	n computer readable form					
	c. tin	ne of	f filing/furnishing:					
:	. [J (d	contained in the international application as filed.					
	_ [⊒ fil	iled together with the international application in computer readable form.					
	. [∃ fu	urnished subsequently to this Authority for the purposes of search.					
3.		has l	ddition, in the case that more than one version or copy of a sequence listing and/or table relati been filed or furnished, the required statements that the information in the subsequent or addition is identical to that in the application as filed or does not go beyond the application as filed, ropriate, were furnished.	tionai				
4.								
_	Вох	No.	. II Priority					
1.	⊠	does	e validity of the priority claim has not been considered because the International Searching Autoris not have in its possession a copy of the earlier application whose priority has been claimed cuired, a translation of that earlier application. This opinion has nevertheless been established cumption that the relevant date (Rules 43 <i>bis.</i> 1 and 64.1) is the claimed priority date.	or, wnere				
2.		has	s opinion has been established as if no priority had been claimed due to the fact that the priorit been found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the interna g date indicated above is considered to be the relevant date.	y claim itional				
3.	Add	lition	al observations, if necessary:					
				•				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2,4,6,8-10

No:

Claims

1,3,5,7,11

Inventive step (IS)

Yes: Claims

4,6,8-10

No: Claims

1-3,5,7,11

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

IAP20 Rec'd PCT/PTO 03 FEB 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2005/000732

Re Item V.

1 Reference is made to the following documents:

D1: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13, 30 November 1998 &; JP

10 212592 A (TANAKA KIKINZOKU KOGYO KK), 11 August 1998

D2: CH393026 A (THE NATIONAL CASH REGISTER COMPANY) 31 May 1965

2 Prior Art

Document D1 discloses (the references in parentheses applying to this document): a plating solution containing ionic Fe, ionic Pt, and a complex agent, at a molar ratio of the ionic Fe to the ionic Pt ranging from 0.75 to 3 (parag. [0006] and example 2 of computer t r a n s l a t i o n a t "http://www4.ipdl.ncipi.go.jp/Tokujitu/PAJdetail.ipdl?N0000=60&N0120=01&N2001=2 &N3001=H10-212592"). A process for providing such a structure and the apparatus involved in the process are also disclosed.

Document D2 discloses a plating solution containing ionic Fe, ionic Ni and Molybdenum compound, whereby Molybdenum is described as complexing agent for the iron.

3 Novelty (Article 33(2) PCT)

As can be seen from the above, document D1 discloses in combination all the features defined in independent claim 1, 7 and 11 and dependent claims 3 and 5. Hence the subject-matter of these claims is not new (Article 33(2) PCT).

4 Inventive step (Article 33(3) PCT)

Dependent claims 2 does not contain any features which, in combination with the features of any claim to which it refers, meet the requirements of the PCT in respect of inventive step (Article 33(3) PCT).

However, bearing the comments made in Item VIII, the combination of the features of dependent claims 4, 6, 8-10 are neither known from, nor rendered obvious by, the available prior art. The reasons are as follows: D1 does not disclose nor teach the use of a lower pH, additional copper element in the alloy, or specific heat-treatment as after-treatment.

Re Item VI

Certain published documents

Application No Patent No Publication date (day/month/year)

Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

JP2004323948

18/11/04

28/04/03

Re Item VIII.

The application does not meet the requirements of Article 6 PCT, because claim 1 is not clear.

It is clear from the description on page 12 lines 24-26 and from the exemplified solutions B and C as well as solutions A2 to H2 and A3 to H3 of example 1 that the pH feature is also essential to the definition of the invention: hence these solutions which fulfill the requirement of the molar ratio have a pH outside the pH range specified in dependent claim 4 and are given as unstable.

Since independent claim 1 does not contain this feature it does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.